

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

Claims 1-24 (Canceled)

25. (Currently Amended) A computer readable medium for storing a computer program that associates a switched virtual circuit (SVC) connection request in a high speed data network with a network subscriber, the subscriber accessing the high speed data network from a remote access port, which is different from an initial access port of the subscriber, the computer readable medium comprising:

a receiving code segment that receives a signaling protocol message requesting the SVC connection from the subscriber at the remote access port, the signaling protocol message comprising a plurality of fields, at least one field of the plurality of fields being modified to include an address of the remote access port;

an authentication code segment that determines whether the signaling protocol message contains authentication data to authenticate the subscriber;

an associating code segment that associates the SVC connection request with data from an account corresponding to the subscriber when the subscriber is authenticated; and

a registering code segment that retrieves the address of the remote access port from the at least one field and registers the address of the remote

access port in the high speed data network in association with the subscriber account when the subscriber is authenticated.

26. (Previously Presented) The computer readable medium for storing the computer program according to claim 25, further comprising:

a retrieving code segment that retrieves service policies from the subscriber account;

a determining code segment that determines from the service policies whether the subscriber is entitled to access the high speed data network, as requested; and

an establishing code segment that establishes an SVC connection through the remote access port when the service policies entitle the subscriber to the requested access.

27. (Canceled)

28. (Previously Presented) The computer readable medium for storing the computer program according to claim 25, wherein the registering code segment registers the address of the remote access port by substituting the address of the remote access port for an existing subscriber address corresponding to the initial access port.

Claims 29-33. (Canceled)

34. (Previously Presented) The computer readable medium for storing the computer program according to claim 25, wherein the authentication data comprises an identifier and a password associated with the subscriber.

35. (Previously Presented) The computer readable medium for storing the computer program according to claim 25, further comprising:

a removing code segment that removes the password from the signaling protocol message after the subscriber is authenticated.

36. (Currently Amended) A method for originating a switched virtual circuit (SVC) connection for a subscriber in an asynchronous transfer mode (ATM) network from an ATM access port different from a previously registered access port associated with the subscriber, the method comprising:

receiving a signaling protocol message from the ATM access port requesting the SVC connection, the signaling protocol message comprising a plurality of fields, a first field ~~containing~~ having been modified to contain a customer identifier and a second field ~~containing~~ having been modified to contain an access port identifier corresponding to the ATM access port;

verifying that the customer identifier corresponds to the subscriber;

retrieving a service policy from an account associated with the subscriber;

determining whether the retrieved service policy permits the SVC connection; and

when the retrieved service policy permits the SVC connection, establishing the SVC connection based on the access port identifier retrieved from the signaling protocol message, and registering the access port identifier in association with the subscriber.

37. (Previously Presented) The method according to claim 36, in which registering the access port identifier comprises replacing an original access port identifier corresponding to the previously registered access port.

38. (Currently Amended) The method according to claim 36, in which a third field of the plurality of fields ~~contains~~ has been modified to contain a customer password, the method further comprising:

verifying that the password corresponds to the customer identifier of the subscriber.

39. (Previously Presented) The method according to claim 38, in which the password is encrypted.

40. (Previously Presented) The method according to claim 39, further comprising:

removing the password from the third field after verifying that the password corresponds to the customer identifier.

41. (Previously Presented) The method according to claim 38, in which the signaling protocol message comprises a SETUP message.

42. (Previously Presented) The method according to claims 41, in which the first field comprises a CallingPartyNumber field.

43. (Previously Presented) The method according to claims 41, in which the third field comprises a CallingPartySubaddress field.

44. (Currently Amended) A computer data signal propagated over a carrier wave for establishing a switched virtual circuit (SVC) connection for a subscriber in an asynchronous transfer mode (ATM) network from a remote ATM

access port different from an initial access port of the subscriber, the computer data signal comprising:

a requesting signal that requests the SVC connection from the remote ATM access port, the requesting signal comprising a first modified field containing an identification number and a second modified field containing an access port identifier corresponding to the remote ATM access port;

a retrieving signal that retrieves at least one service policy from an account associated with the subscriber when the requesting signal is authenticated based on the identification number; and

an establishing signal that establishes the SVC connection with the subscriber at the remote ATM access port, based on the access port identifier from the second field, when the service policy permits the SVC connection.

45. (Previously Presented) The computer data signal according to claim 44, further comprising:

a registering signal that registers the access port identifier corresponding to the remote ATM access port in association with the subscriber.

46. (Previously Presented) The computer data signal according to claim 45, in which registering signal replaces an initial access port identifier corresponding to the initial access port of the subscriber.

47. (Currently Amended) The computer data signal according to claim 44, in which the requesting signal further comprises a third modified field containing a customer password; and

the retrieving signal retrieves the at least one service policy from the account associated with the subscriber when the requesting signal is further authenticated based on the password.

48. (Previously Presented) The computer data signal according to claim 47, further comprising:

a removing code segment that removes the password from the third field after the requesting signal is further authenticated based on the password.

49. (Previously Presented) The computer data signal according to claim 47, in which the requesting signal comprises a SETUP message.